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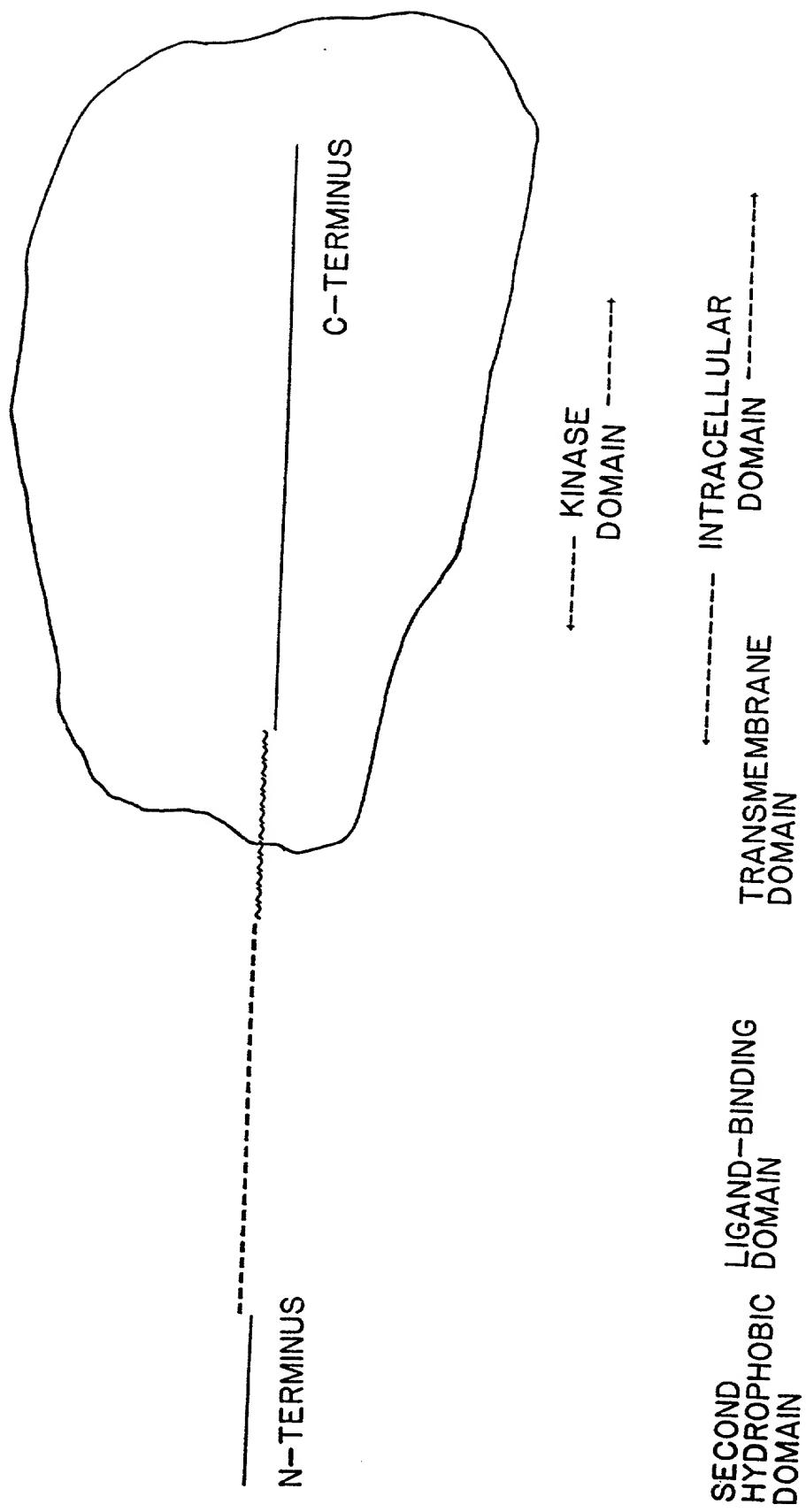
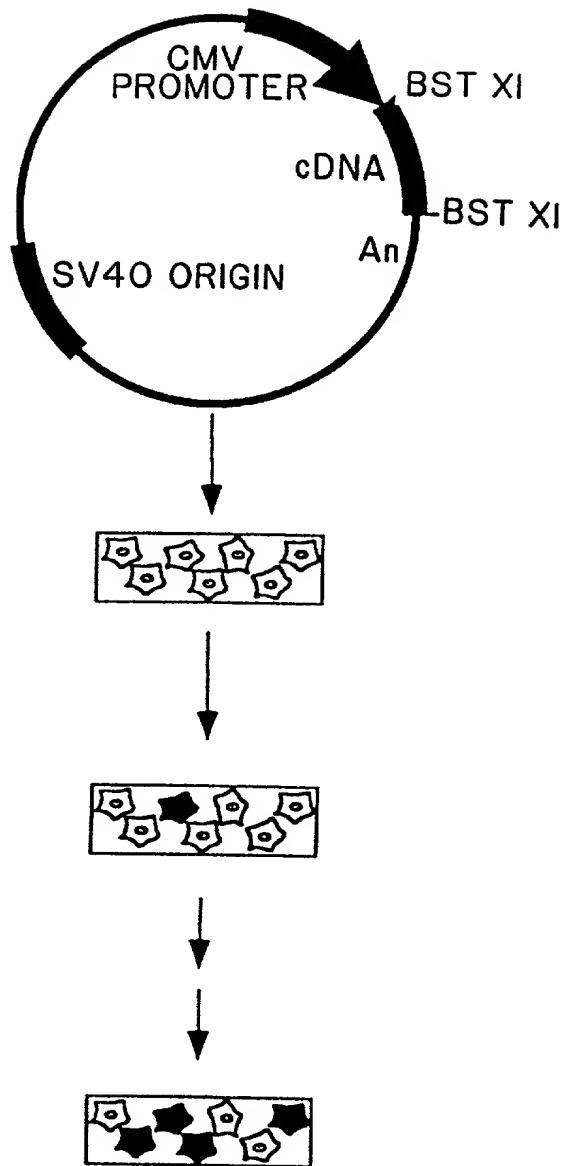


FIG. 1

Divide a cDNA library in a mammalian expression vector into pools of 1000 clones, prepare DNA from each pool



Transfect COS cells directly on microscope slides

Bind [¹²⁵I] activin A, wash cells, fix, dip in photographic emulsion

Subdivide bacteria from positive pool and rescreen; repeat until receptor clone is pure

FIG. 2

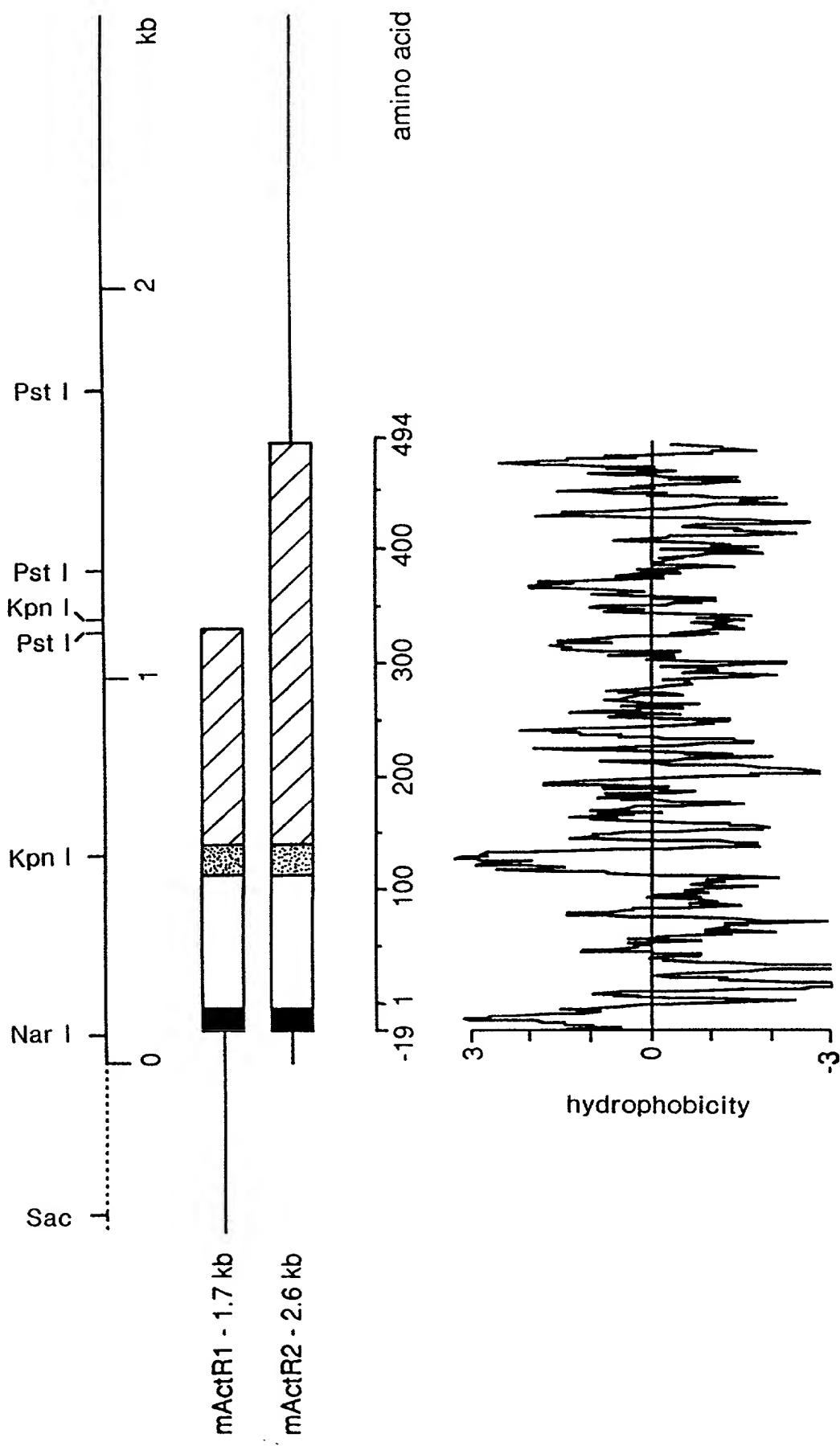


FIG. 3

Act	R	(174) E LLEVKGREGFV E TVKAQLE E VAVK F FP DDKQSWQ EEEVYSLPGM H N U L Q I G P A E K R C T SVDVTI WL I F A	*	
Daf	(295) E LTGRVGREGF V VSRGDY E VAVK F FN D DEPAF H E E I F E T R M L E H N U L R I G S D R V I T G F V T E WL V I E	*		
Subdomain	I	II	III	IV
Act	R	EFHGSLSDELFLNA V VSWNELCHIAET A FGLA A I H H E I G K D G K P A I H R D I K S K N J V L K N J T A C I P F E L	*	
Daf		EYHGSLSDELFLN E WT V N I E T Y N L M R S A FGLA A I H H E I G K D G K P A I H R D I K S K N J V L K N J T C F I O I E L	*	
Subdomain	V	VIA	VIB	VII
Act	R	LAIKF . A BACKSAGDTH G F R Y A E E H I L E G A I E F Q R . DAFLRDDYVAM L V I W E F A R C T A D G H V D E Y M L P	*	
Daf		LSLSKPE A ASDIIANENY G F R Y A E E H I L N S T M E F T V F E S Y Q D Y S F L V W E F T L R C . EDGIVLPREAA	*	
Subdomain	VIII	IX	XI	
Act	R	FE . E E E I G P S L M M V V H K R E PVLRD W Q E H A M M L E F T E C W D H D A F R L S A G V G E R I T O M O R E L	*	
Daf		TVIPEIEW T D D P Q D M M V V V C T R R P PTEN W M K H I E E I K C W A G N P S A R F T S Y I C R I R M D E R O Q L	(28) (78)	
Subdomain	X			

FIG. 4

FIG. 5A

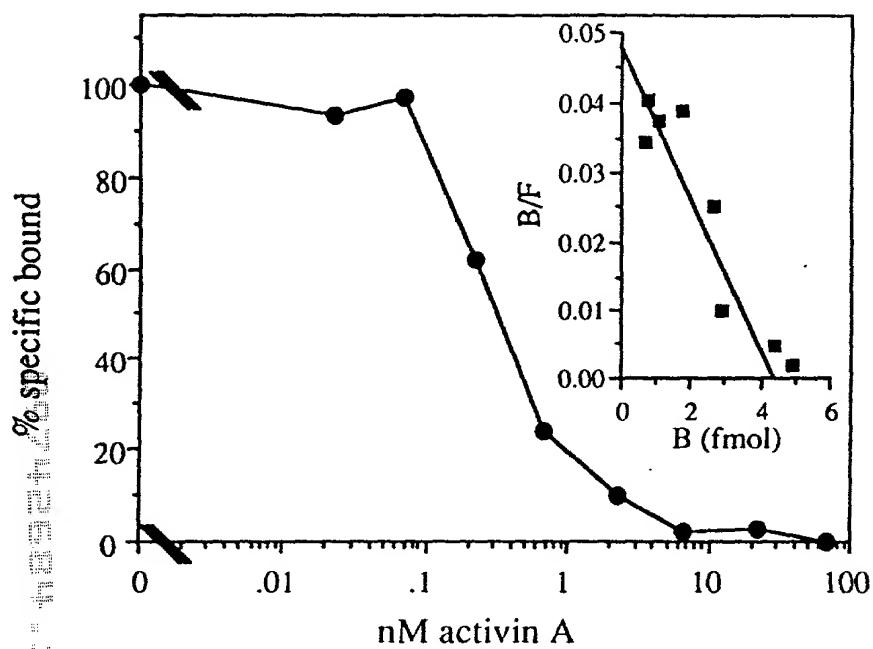
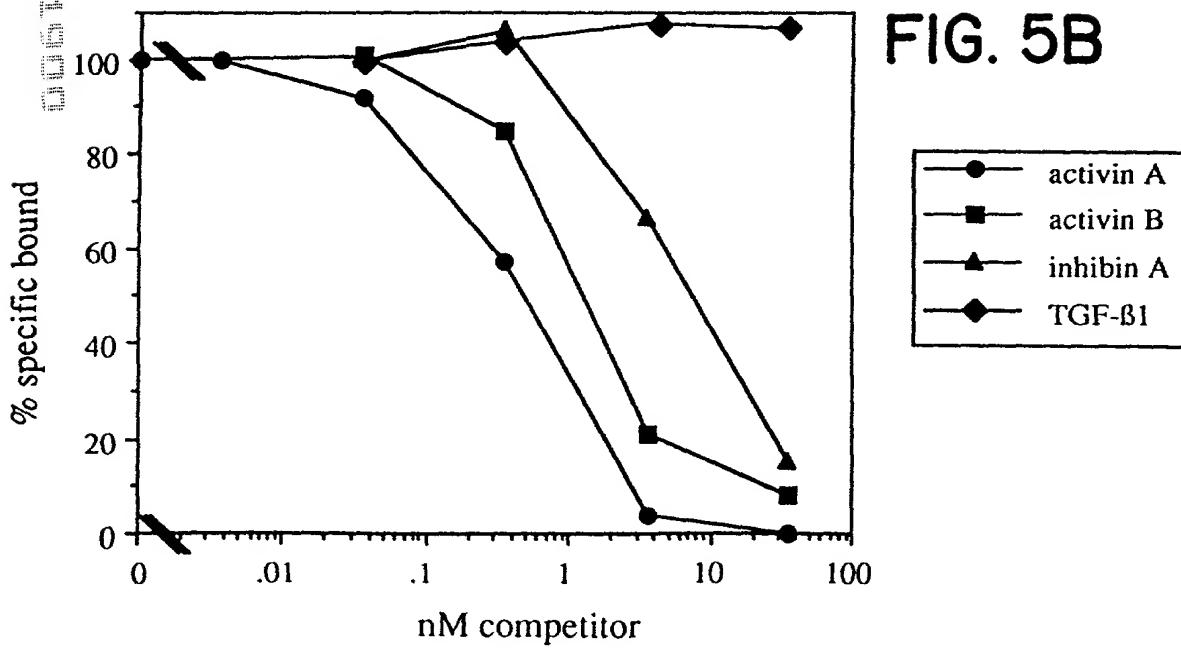


FIG. 5B



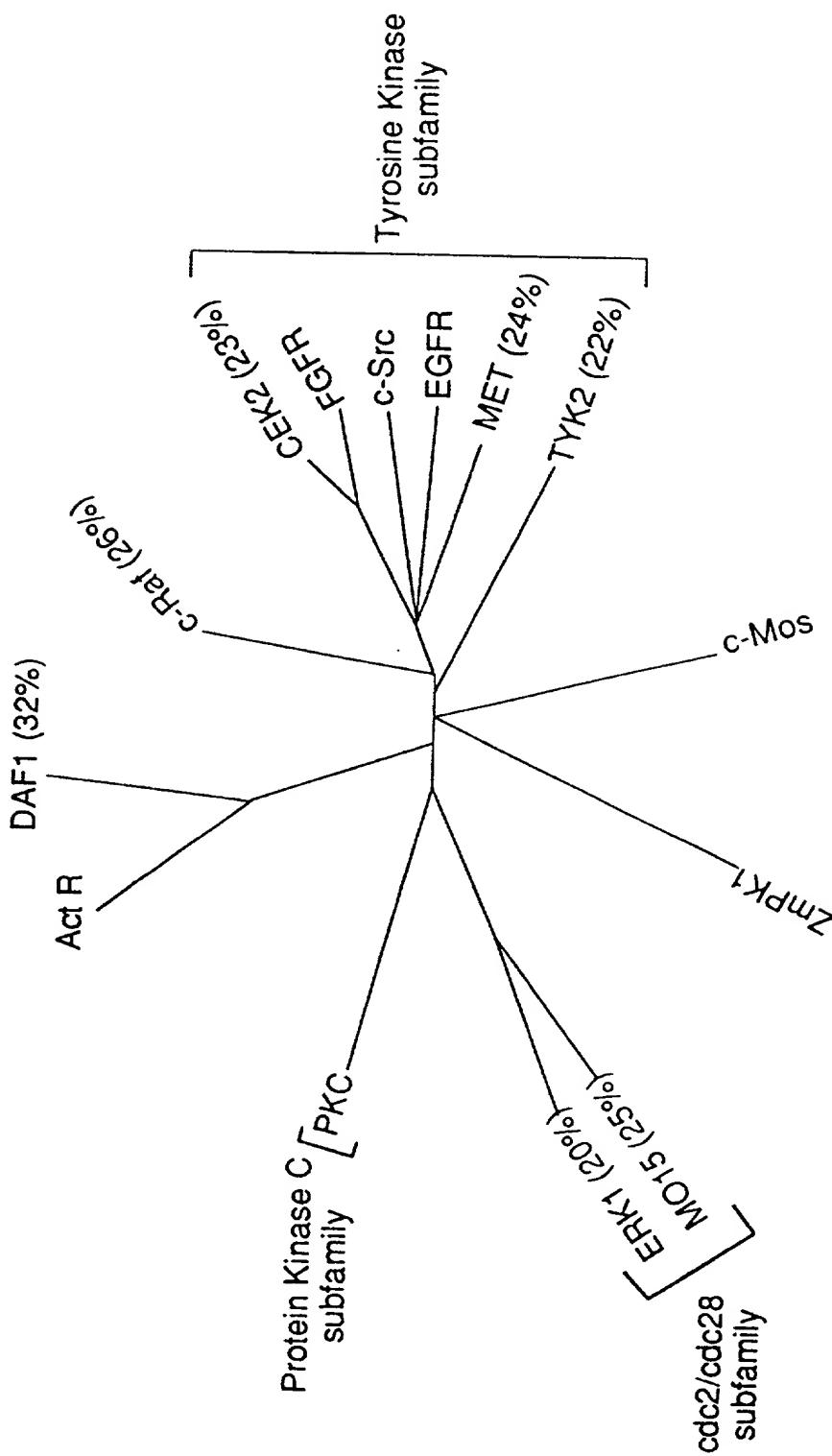


FIG. 6